

1 Attorney Docket No. 84125

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3 MINIATURE AXISYMMETRIC STREAMLINE TENSILE (MAST) SPECIMEN

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5 ABSTRACT OF DISCLOSURE

6 A miniature axisymmetric streamline tensile (MAST) specimen
7 having improved axisymmetric surface profile design and surface
8 stress concentration factor (SSCF) improvements, i.e., close to
9 unity is described. The MAST specimen also has improved
10 variable curvature transition fillets, miniaturized profile
11 dimension and shoulder region features used in conjunction with
12 the collet loading method. An axisymmetric, rather than flat,
13 design is preferred since no stress gradients exist in the hoop
14 direction, i.e., circumferential direction, of the specimen.
15 The MAST specimen is designed to permit various loading options.
16 The MAST specimen 10 may be used for testing any suitable
17 material including, but not limited to, metals, plastics and
18 ceramics.